

Abstract of the Disclosure

Provided is a carbon nanotube structure of homogeneous characteristics which is composed of at least a carbon nanotube structure layer where plural carbon nanotubes are cross-linked to one another to form a mesh structure on a surface of a base body. Also provided is a method of manufacturing the carbon nanotube structure which includes: an application step of applying a liquid solution that contains carbon nanotubes having functional groups and an additive for forming chemical bonds between the functional groups to a surface of a base body; and a cross-linking step for forming a carbon nanotube structure layer that has a mesh structure composed of the plural carbon nanotubes that are cross-linked to one another by chemical bonds formed among the functional groups.